

The background of the slide features a vibrant blue gradient with several translucent, colorful spheres in shades of green, purple, and blue. Some of these spheres have white highlights, giving them a three-dimensional appearance. Faint white circles are also visible, some of which appear to be orbits or paths around the spheres.

Fizz, Boom, Create!

Exciting Science Experiments for Preschoolers

Lynn Baker
Paul Sawyer Public Library
lynn.baker@pspl.org

Air Experiments

1. Pop rocks candy-inflated balloon
2. Floating ping pong ball (hair dryer)
3. Alka-seltzer balloons
4. Air pump vacuum in a jar (using different objects)
5. Bubble painting



Songs, Crafts & More!

Balloon Fingerplay

(Name) had a (color) balloon,

So she/he blew and blew,
(Fist up to mouth and make blowing sound three times),

'Til it got so big and round,

And grew and grew and grew
(hand motion to look like balloon is growing).

(Name) kept it in the air,
Never let it drop,

Until one day it hit the ground,

And suddenly, it went POP!

Balloons by The Laurie Berkner Band, *Party Day* CD



Craft Ideas

***Paint with balloons and washable paint.**

***Make collages on balloons with tissue paper and thin glue.**

Chemical Reactions

- *Melt ice colored with food coloring into a jar of canola oil.**
- *Create colorful fizz with drops of colored vinegar in a tray of baking soda.**
- *Microwave Ivory soap**
- *Transparent construction paper artwork**
- *Frozen artwork**



Songs, Crafts & More!

Fizzy Sidewalk Chalk

- *Baking soda
- *1/2 cup of cornstarch
- *Very warm water
- *Food coloring

Mix all dry ingredients and add water stirring until it's not too thick.

<http://kidsactivitiesblog.com>



More...

Dance, Freeze, Melt (Dance Rock)
by Eric Litwin & Michael Levine

<http://thelearninggroove.bandcamp.com/track/dance-freeze-melt-dance-rock>

Light Experiments

1. Homemade light box: opaque box, LED patten-powered light



2. Blacklight with fluorescent or neon objects

3. Make a rainbow with a mirror in a glass of water. Shine a flashlight at the mirror through the glass in a dark room with white walls, and see a rainbow!

Songs, Crafts & More!

Blacklight painting:
Use fluorescent
paint on
transparency film
or wax paper.
Watch it glow as
you paint!



Make a lava lamp!

Place 2 parts vegetable oil, 1 part water, drops of food coloring, and an Alka-Selzer tablet in a clear container. Tall and skinny containers work best. Watch your lava lamp bubble. Add more Alka-selzer as the bubbles stop!

Magnetic Powers

1. Create a magnet wand from a paint stick and attach magnets. Fill a clear container with magnetic and non-magnetic items for children to explore.
2. Magnet tray: wedding trinket boxes filled some magnetic and some non-magnetic items-- use wand



Songs, Crafts & More!

Painting with Magnets

Dip magnetic items (such as paper clips, metal marbles, etc.) into paint. Place the items on paper. Encourage children to use strong magnets under the table to move the items across the paper to create works of art!



“The Magnet Song”

Tune: I'm a Little Teapot

**I'm a little magnet, can't you see?
Anything metal comes right
to me.**

**If it is not metal you will see,
It just will not stick to me.**

Color-Mixing

- 1. Color mixing with cups, food coloring, water, paper towel**
- 2. Paint with colored ice**
- 3. Flashlights with colored cellophane**
- 4. Melt primary colored ice cubes together to mix colors**
- 5. Coffee filter artwork**



Songs, Crafts & More!

Rainbow Colors

Tune: Hush Little Baby

Rainbow purple, rainbow blue
Rainbow green and yellow, too.
Rainbow orange, rainbow red,
Rainbow smiling overhead.
Come and count the colors with me,
How many colors can you see?
One, two, three, down to green,
Four, five, six can be seen.
Rainbow purple, rainbow blue,
Rainbow green and yellow, too.
Rainbow orange, rainbow red,
Rainbow smiling overhead.



Mix colors by adding shaving cream to a zip-top baggie. Squirt two different food colorings in the bag for children to mix together by squeezing.

Five Senses

1. Smelling canisters (cotton balls in old film canisters)



2. Sensory balloons (flour, play dough, sand, dried beans, salt, etc.)



Songs, Crafts & More!

Singing the Senses Tune: "Bingo"

We use five senses everyday
To help us learn and play.
See, hear, smell, touch, taste
See, hear, smell, touch, taste
See, hear, smell, touch, taste
We use these everyday.



**Try dancing
on bubble
wrap!**